

DSRS USER TOOL 6.06.0 INSTALLATION PROCEDURES

OVERVIEW

The purpose of the Installation Procedures is to provide the System Administrator with the information necessary to install and administer the Defense Software Repository System (DSRS) User Tool for GCCS. A basic familiarity with UNIX system administration and GCCS COE System Administrator (sysadmin) functions is assumed.

The architecture shown in Figure 1-1 illustrates at a system level the components that make up the DSRS. The DSRS User Tool allows the sysadmin to search, browse, analyze and extract segments stored in the GCCS Server site. The communications between the user's workstation and the DSRS Server is accomplished via the SIPRNet. At the DSRS Server site, segments and the information describing the segments, including pointers to the physical location of the segment in the repository, is maintained in an Oracle database. The DSRS Server software manages the interface between the DSRS User Tool, the Oracle database, and the segments. To keep the network communications overhead to a minimum, some information from the DSRS database is replicated on the user's workstation in a local cache, provided by an mSQL database.

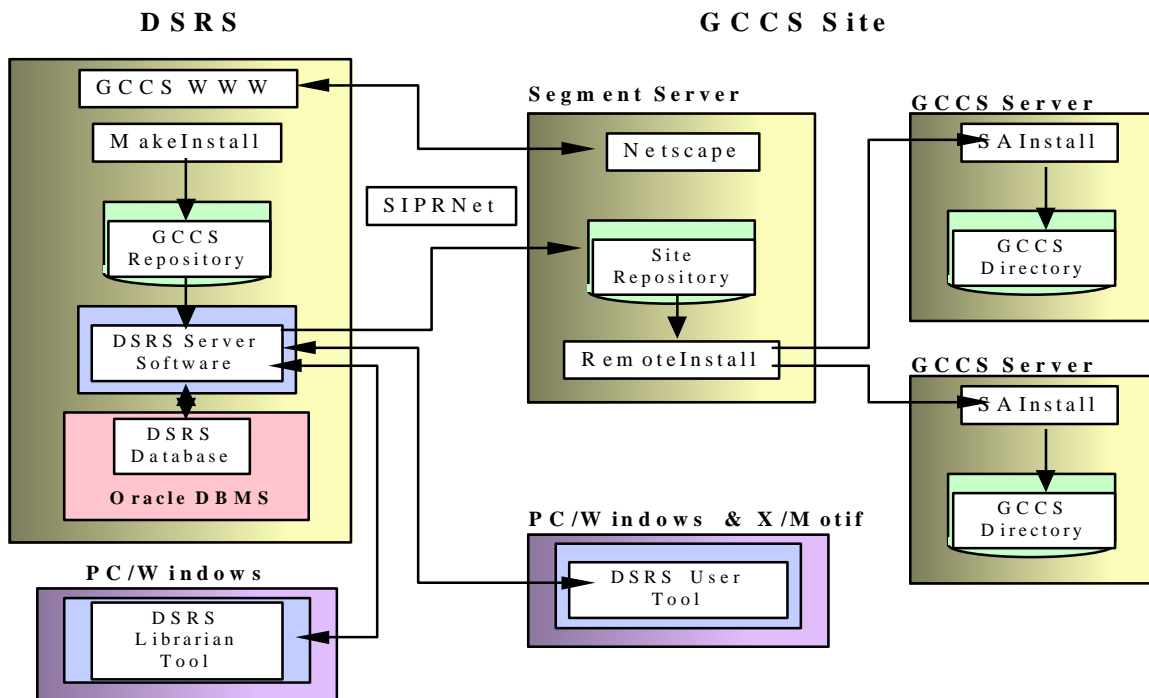


Figure 1-1 DSRS Architecture

SYSTEM REQUIREMENTS

To run the the DSRS User Tool (client), a SUN 4 architecture running Solaris 2.3 with 16 MB (minimum) memory and 10 MB of available disk space is required. To support the user interface, Motif Version 1.2.2 must be installed. The communication path between the user's workstation and the DSRS site (server) will take place over the SIPRNet and be supported via Telnet. The minimum connection speed is 56 Kbps with a desired speed of 1.5 Mbps.

INSTALLATION PROCEDURES

The installation procedures for the DSRS User Tool assumes a basic familiarity with the operation of SAInstaller. To connect with a DSRS Server site using the DSRS User Tool, an account is required. A user can obtain a DSRS for GCCS Account Registration Form from the site GCCS Information Systems Security Office (GISSO). The site GISSO will validate and forward completed forms to the Operational Support Facility (OSF) GISSO, DISA/JIEO/JEJIS, 45335 Vintage Park Plaza, Sterling, VA 20166-6701. The OSF GISSO will register the user and generate an account name and password that will be sent to the site GISSO for distribution to the individual user.

Preparation. Before installation the following must be determined:

- a. **Who will be the SUN sysadmin?** An individual at each site must be designated as the site's Sun sysadmin and adequately trained in UNIX and Sun-specific GCCS COE System Administrator functions.
- b. **Who will be the DSRS registered users?** For each register user, determine the account username as it appears in the system password file. A root mSQL database account exists for use by the sysadmin.
- c. **Where will the DSRS be loaded?** The directory where the DSRS will be installed is assumed to be /h. If the physical location differs, a symbolic link should be created to point to /h.

NOTE: DSRS Version 6.06.0 supersedes DSRS Version 6.05.2.0 and an earlier release of GSRS 6.02.1. Please DEINSTALL any prior versions of the software before beginning the DSRS Setup procedures. Problems in the GSRS DEINSTALL prevent the msqld daemon from being killed and must be performed manually. To find the process ID, type the following at the command prompt: **ps -ef | grep /h/DSRS/Minerva/bin/msqld**, followed by: **kill -9 <process-id>**, where process ID is the result of the 'ps' command.

Setup. The following steps are required to install the DSRS User Tool:

1. Insert an 8mm DAT tape in the appropriate media device.
2. Login to the target system as the sysadmin.
3. Launch Segment Installer. A default configuration is used in the following example. *For complete details, refer to the Segment Installer user guide.*
 - 3.1 Click the **Segment Installer** pushbutton from the sysadmin launch window.
 - 3.1.1 Click the **Select Media** pushbutton to identify the installation source.
 - 3.1.2 Select the appropriate host and device in the Select Media window, and click the **OK** pushbutton to accept and close the window. The default configuration, *Host=Local and Device=Dat* identifies the installation source as local tape drive.
 - 3.1.3 Click the **Read TOC** pushbutton to read the table of contents from the installation source.
 - 3.1.4 Select the *DSRS User Tool* in the TOC window.
 - 3.1.5 Review important information about the DSRS User Tool prior to installation, click on the **Rel Notes**, **Required**, and **Conflicts** pushbuttons.
 - 3.1.6 Click the **Install** pushbutton to begin installation. As part of the installation process, the DSRS User Tool PostInstall procedure will be invoked to automatically setup the msqld daemon, setup application resources, prompt sysadmin to create additional mSQL databases, and load the application launch profiles.
 - NOTE:** The DSRS User Tool mSQL database user account utility can be accessed at any time using `/h/DSRS/Scripts/launch_MSQL_ADMIN.DSRS`.
 - 3.1.7 View completion status. The result of the installation process is reported in a warning dialog box. If no errors are encountered, the message will read, "Segment Successfully Installed."
- 4.0 To launch the DSRS User Tool, logout and login again as sysadmin for the user profile changes to take effect.

NOTE: If DSRS does not appear in the launch list, secman must add it to the sysadmin user profile. Update the user profile as follows:

4.1 Login to the target system as secman.

4.2 Click the Profiles pushbutton from the launch list.

4.2.1 Select Launch List from the Modify menu User option submenu. located on the Profile Manager main menu.

4.2.1.1 Select sysadmin from the available User Id(s) by clicking on the right arrow button.

4.2.1.2 Select DSRS User Tool from the list of available segments.

4.2.1.3 Click the OK pushbutton to confirm and close the Launch List window.

4.2.1.4 Select Exit from the File menu options located on the Profile Manager main menu to quit.

4.3 Logout as secman.

NOTE: Changes in the user profile are updated during logout. Therefore the user is required to login twice before the launch window updates the new DSRS button.

Troubleshooting. If the segment does not launch from the desktop:

1. Verify that the msqld daemon process is running. At the command prompt type:

ps -ef | grep /h/DSRS/Minerva/bin/msqld

A process list should be returned with the following command name:
/h/DSRS/Minerva/bin/msqld

2. Check to see if the user has a valid mSQL database account corresponding to the login username. To verify that the username exists, in an xterm window, type:

/h/DSRS/Minerva/msqldb/<username>

where username is the login name of the user requesting access to the DSRS User Tool. The sysadmin has rights to the default database *root*.

3. Logout of the system and login as the username of the person running the DSRS.

Outputs. This section lists the output files generated by the DSRS.

- 1. Sessions.** If the user saves their session, then a file is created that contains the current session information.
- 2. FTP.** If the user performs an FTP extraction, then the segments are downloaded to the user specified location given write privileges and available disk space.
- 3. File Copy.** If the user performs a file copy extraction, then the segments are downloaded to the current working directory given write privileges and available disk space.
- 4. Additional Files.** In some cases, if the tool exits abnormally, files may be left in the /tmp directory. Hard Copy and Tape Copy extraction requests are recorded in the /var/adm/dsrs directory located at the DSRS server site. The messages generated by the DSRS Server executable are logged in the /var/admin/dsrs/pc_server.log located at the DSRS server site.